

STEM EDUCATION GRADUATE CREDIT CERTIFICATE PROGRAM

Learning Outcomes

1. Learning Theories and STEM Epistemologies: Develop and demonstrate an understanding of theoretical perspectives on learning and the nature of knowledge/knowing in STEM disciplines. [Scholarly and professional goal: Knowledge]
2. Equity and Justice: Design a learning experience or technology that contributes to a more equitable, inclusive, or justice-oriented vision of STEM education. [Scholarly and professional goal: Cultural competence]
3. STEM Teaching Pedagogy: Demonstrate ability to plan learning experiences that elicit, assess, and productively build upon learners' diverse cognitive and cultural resources in STEM domains. [Scholarly and professional goal: Application]
4. Research, Policy and Standards: Demonstrate ability to discuss STEM education research literature, policy, and standards related to teaching and learning in STEM disciplines and integrated STEM Education. [Scholarly and professional goal: Professional]